No.



200400002

<u> THE UNITED SHAMES OF AMERICA</u>

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Resource Seeds, Inc.

HILLEUS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID GOPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY PLANS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLEMISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE UGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR SERVING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

TRITICALE

'96'

In Testimone Mercest, I have hereunto set my hand and caused the seal of the Hunt Duriety Frotestion Office to be affixed at the City of Washington, D.C. this fifth day of June, in the year two thousand and six.

Atlast:

Jem's

Commissioner

Plant Variety Protection Office Agricultural Marketing Service Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 552a) a the Paperwork Reduction Act (PRA) of 1995.

| APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE | Application is required in order to determine if a plant variety protection certificate is to be is |
|---|---|
| (Instructions and information collection burden statement on reverse) | (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426). |

| | | | es de la companya de | 2. TEMPORARY DESIGN. EXPERIMENTAL NAME 98TV4652 | Ĕ i | 3. VARIETY NAME 96 |
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| 4. ADDRESS (Street and No., or R.F.D. I | No., City, State, and ZIP Code, and Cou | intrv) | | F 70 EDITOR II | | FEET ENDINGER ALL |
| 2280 Hecker Pass Highw | | | | 5. TELEPHONE (include a 408/847-10 | | FOR OFFICIAL USE ON |
| Gilroy, California 95020 | | v | 1 | 400/047-10 | 2 | PAPO NUMBER |
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| ORGANIZATION (corporation, partners) Corporation | hip, association, etc.) | | NCORPORATION 21110111112 | 9. DATE OF INCORPORAT | 1000 | |
| | | 1 | • | | , 1990 | October 1, 200 |
| 10. NAME AND ADDRESS OF OWNER RE | EPRESENTATIVE(S) TO SERVE IN TH | IIS APPLICATION | (First person listed will n | eceive all papers) | | FILING AND EXAMINATION |
| Dr. George Fohner | | 1 20 | | | | FEES: |
| Resource Seeds, Inc. | | | | the state of the state of | Section 1 | \$ 365Z.00 |
| P.O. Box 1319 | | | | | | E 10/1/2 |
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| 100/045 1051 | l' | 13. E- | _ | | | IND (Common Name) |
| 408/847-1051 | 408/847-0604 | • | george@resou | rceseeds.com | Tritica | le |
| a. Exhibit A. Origin and Breeding b. Exhibit B. Statement of Distinct C. Exhibit C. Objective Description d. Exhibit D. Additional Description | y History of the Variety chess n of Variety on of the Variety (Optional) | | YES 20. DOES THE OV | (If "yes", answer items 20 and 21 below) WNER SPECIFY THAT SEED O IMITED AS TO NUMBER OF C | F THIS | TY BE SOLD AS A CLASS OF by Protection Act) O (If "no," go to item 22) YES NO CERTIFIED |
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INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$300 filling fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
 - (2) the details of subsequent stages of selection and multiplication;
 - (3) evidence of uniformity and stability; and
 - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties.
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

USA, November 2002. Prior to November 2002, only used for field tests and seed multiplication under the supervision and control of Resource Seeds, Inc.

3. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the ariety is protected by intellectual property right (Plant Breeder's Right or Patent).)

OTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's expresentative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or ssignment or any-modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 7.175(h) of the Regulations and Rules of Practice.)

o avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, uilding 306, Beltsville Agricultural Research Center–East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and intaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your The U.S. Department of Agriculture (USDA) combines (sectional line) in the progress of the collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) positions discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not exhibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braitie, large print, audiotape, etc.) should contact the USDA Office of minumications at (202) 720-2791. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is equal opportunity employer.

T-470 (6-98) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (03-96) which is obsolete.

'96' TRITICALE

Exhibit A. Origin and breeding history of the variety.

Triticale 96 is derived from a complex series of crosses and plant selections as outlined in chronological order:

In 1989 a cross was made between two CIMMYT triticale varieties, PIKA "S" and YOGUI "S". Through various years of self-pollination and individual plant selection at our two nursery sites of Woodland and Gonzales, California, an F4 plant selection was made in 1991 from this first cross which contributed significantly to the final plant product.

In 1992 two separate crosses were made which are also very significant. The original F4 plant selection derived from PIKA "S"/ YOGUI "S" was crossed in 1992 to the CIMMYT breeding lines AR/SPY6//11TSN79-3/C-2 and PND6/CMH77A.1165/CMH74A.888 developed within the CIMMYT germplasm program. Both crosses were advanced using the pedigree method of selection. The first cross gave an F4 plant selected in 1993 that was crossed in 1994 to an F3 plant selection from the second cross.

Again, the pedigree method of selection was used to advance the generations. The designation 98TV46520, the experimental identification number for triticale 96, was assigned to the seed harvested from a yield trial plot in the F5 generation in 1998.

The complete genealogy for this selected line is: AR/SPY6//11TSN79-3/C-2/3/PIKA "S"/YOGUI "S"/4/PIKA "S"/YOGUI "S"//PND6/CMH77A.1165/CMH74A.888.

96 has been phenotypically stable and uniform through four generations of seed multiplication. It has been noted during seed multiplication that taller variants can be found in this variety at a frequency of no more than 0.5%

'96' TRITICALE

Exhibit A. Origin and breeding history of the variety. (continued)

Table A1. Selection Criteria

| Generation | Criteria for Selection | | | | |
|---------------|--|--|--|--|--|
| P1 x P2 | None | | | | |
| F1 | None | | | | |
| F2 through F5 | Select for resistance or tolerance to diseases: Stripe rust Septoria leaf blotch Barley yellow dwarf virus Leaf rust Select for: High tiller number Leafiness Good grain fill Early maturity Select against: Lodging | | | | |
| F6 & F7 | Select for: High forage yield High seed yield Reduced lodging Little or no disease Early maturity | | | | |

'96' TRITICALE

Exhibit B. Statement of Distinctness

96 triticale is most similar to the triticale varieties, "105" and "111". 96 differs from 105 and 111 in being shorter (Table B1), and having smaller kernel size (Table B2).

Table B1. Plant Height (inches)

University of California Regional Performance Tests

| Year | Location | 96 | 105 | 111 | LSD (0.05) |
|------|---------------|----|-----|------|------------|
| 2002 | T: G G | | | 4.77 | |
| 2003 | Kings Co., CA | 41 | 50 | 47 | 3 |
| 2002 | Kings Co., CA | 41 | 49 | 48 | 2 |
| 2002 | Davis, CA | 38 | 45 | 44 | 4 |
| | AVERAGE | 40 | 48 | 46 | |
| | | | | | |

Table B2. 1000 Kernel Wt. (grams)

University of California Regional Performance Tests

| Location | 96 | 105 | 111 | LSD (0.05) |
|---------------|--------------------------------|--|---|---|
| Kings Co., CA | 43.8 | 51.8 | 49.7 | 5.1 |
| Kings Co., CA | 38.4 | 45.7 | 46.3 | 1.5 |
| AVERAGE | 41.1 | 48.8 | 48.0 | |
| | Kings Co., CA Kings Co., CA | Kings Co., CA 43.8 Kings Co., CA 38.4 | Kings Co., CA 43.8 51.8 Kings Co., CA 38.4 45.7 | Kings Co., CA 43.8 51.8 49.7 Kings Co., CA 38.4 45.7 46.3 |

EXHIBIT C (Triticale)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN AND SEED DIVISION BELTSVILLE, MARYLAND 20705 OBJECTIVE DESCRIPTION OF VARIETY

TRITICALE

| NAME OF APPLICANT(S) | VARIETY NAME OR TEMPORARY DESIGNATION |
|--|--|
| RESOURCE SEEDS, INC. | 96 |
| ADDRESS (Street and No., or F.F.D. No., City, State, and ZIP Code) | FOR OFFICIAL USE ONLY |
| P.O. BOX 1319, GILROY, CA 95021 | 20040002 |
| Place the appropriate number that describes the varietal character of this variety in t Place a zero in first box (e-8- 0 8 9 or 0 9) when number is either 99 or less | he boxes below. |
| 1. GROWTH HABIT: | |
| 1 = SPRING 2 = INTERMEDIATE 3 = WINTER | |
| Juvenile Plant Growth: 1 = PROSTRATE 2 = SEMIPROSTRATE | 3 = ERECT |
| 1 Photoperiod: 1 = INSENSITIVE 2 = SENSITIVE | |
| 2. PLOIDY: | |
| 1 = HEXAPLOID 2 = OCTOPLOID 3 = OTHER (Specify) | |
| 4 2 2n CHROMOSOME NUMBER | |
| 3. MATURITY (50% Flowering): | |
| 1 1 = VERY EARLY 2 = EARLY 3 = MIDSEASON 4 = L | ATE 5 = VERY LATE |
| 0 7 DAYS EARLIER THAN . 1.1.1 | ARMACK 2 = ROSNER 3 = PATHFINDER |
| DAYS LATER THAN | A 204 5 = ARMADILLA |
| 4. HEIGHT: | |
| 1 0 2 CM. HIGH 2 1 = DWARF 4 = MIDTA | |
| 1 5 CM. SHORTER THAN . 1.1.1 | RMACK 2 = ROSNER 3 = PATHFINDER |
| CM. TALLER THAN | A 204 5 = ARAMADILLA |
| 5. PLANT COLOR AT BOOT STAGE: | |
| 2 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN | |
| 6. STEM: | |
| 2 Anthocyanin: 1 = ABSENT 2 = PRESENT | • |
| Neck Hairiness: 1 = NONE 2 = SLIGHT 3 = MODERATE | 4 = HEAVY |
| Shape Of Neck: 1 = STRAIGHT 2 = WAVY 3 = OTHER (Spe | ecify) |
| 7. LEAVES: | |
| 2 Flag Leaf: 1 = NOT TWISTED 2 = TWISTED 2 3 CM. I | EAF LENGTH: 1st Leaf Below Flag Leaf |
| 2 Waxy Bloom On Leaf At Boot: 1 = ABSENT 2 = PRESENT 1 8 MM. | LEAF WIDTH: 1st Leaf Below Flag Leaf |
| Leaf Carriage: 1 = UPRIGHT 2 = RECURVED 3 = DROOPING Auricle Color | : 1 = COLORLESS OR WHITE 2 = PURPLE 3 = OTHER (Specify) |
| FORM I MGS-470-33 (3-83) (Formariy Form CP 470-33 9/75 which may be used) | Date 1 of 2 |

| 8. HEAD: |
|--|
| Density: 1 = LAX 2 = MIDDENSE 3 = DENSE |
| Shape: 1 = FUSIFORM 2 = OBLONG 3 = CLAVATE 4 = ELLIPTICAL 5 = OTHER (Specify) |
| Awnodness: 1 = AWNLESS 2 = APICALLY AWNLETTED 3 = AWNLETTED 4 = AWNED |
| Awn Color: 1 = WHITE 2 = YELLOW 3 = TAN, 4 = BROWN 5 = BLACK |
| 1 2 CM. HEAD LENGTH 1 5 MM. HEAD WIDTH |
| 9. GLUMES AT MATURITY: |
| Pubescence: 1 = GLABROUS 2 = SLIGHTLY PUBESCENT 3 = PUBESCENT |
| Color: 1 = WHITE 2 = YELLOW 3 = TAN 4 = BROWN 5 = BLACK |
| Length: 1 = SHORT 2 = MIDLONG 3 = LONG Width: 1 = NARROW 2 = MIDWIDE 3 = WIDE |
| Shoulder: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 2 4 = SQUARE 5 = ELEVATED 6 = APICULATE Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE |
| 10. COLEOPTILE COLOR: |
| 1 = WHITE 2 = GREEN 3 = PURPLE |
| 11. SEED: |
| Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL |
| Smoothness: 1 = SMOOTH 2 = SLIGHTLY WRINKLED 3 = WRINKLED |
| Brush Area: 1 = SMALL 2 = MIDSIZE 3 = LARGE |
| Brush Length: 1 = SHORT 2 = MIDLONG 3 = LONG |
| Phenol Reaction: 1 = IVORY 2 = FAWN 3 = LIGHT BROWN 4 = BROWN 5 = BROWN BLACK |
| Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = BLACK 6 = OTHER (Specify) |
| 3 8 GMS. PER 1,000 SEED |
| 12. DISEASE (0 = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Tolerant): |
| 0 STEM RUST (Races) |
| 2 STRIPE RUST (Race) PST80 Hypersensitivity O ERGOT |
| 2 POWDERY MILDEW O BACTERIAL STRIPE |
| 2 SEPTORIA 3 YELLOW DWARF |
| OTHER (Specify)OTHER (Specify) |
| 13. INSECT (O = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Tolerant): |
| O GREENBUG HESSIAN FLY RACE: O GP O A O C |
| O CEREAL LEAF BEETLE O D O E O G |
| OTHER (Specify) |
| FORM LMGS-470-33 (3-83) |

| 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED: | | | | 20040000 | | |
|---|-----|--|---------|----------|--|--|
| CHARACTER | | | VARIETY | | | |
| PLANT TILLERING | 111 | | | | | |
| WINTER HARDINESS | | | | | | |
| AREA OF ADAPTATION | 105 | | | | | |
| SEED SHAPE | 105 | | | | | |

REFERENCES:

COMMENTS:

L. W. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, USDA.

W. E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, Contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts.

| U.S. DEPARTMENT OF AGRICULTUR AGRICULTURAL MARKETING SERVIC | | The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. | | | |
|--|--|--|--|--|--|
| EXHIBIT E STATEMENT OF THE BASIS OF (| OWNERSHIP | Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426). | | | |
| 1. NAME OF APPLICANT(S) | | TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER | 3. VARIETY NAME | | |
| RESOURCE SEEDS, INC. | | 98TV46520 | 96 | | |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, a | nd ZIP, and Country) | 5. TELEPHONE (include area code) | 6. FAX (include area code) | | |
| P.O. Box 1319, Gilroy, CA 95021 | | 408/847-1051 7. PVPO NUMBER 200 | 408/847-0604 | | |
| 8. Does the applicant own all rights to the variety? A | | | YES NO | | |
| Is the applicant (individual or company) a U.S. nat If no, give name of country | ional or U.S. based o | · | YES NO | | |
| 10. Is the applicant the original owner? | YES 1 | O If no, please answer one of the | following: | | |
| a. If original rights to variety were owned by indivi | idual(s), is (are) the or | riginal owner(s) a U.S. national(s)? | | | |
| ₩ | لا | If no, give name of country | 2 | | |
| b. If original rights to variety were owned by a cor | npany(ies), is(are) the | | ny ? | | |
| | YES 1 | (O If no, give name of country | | | |
| 11. Additional explanation on ownership (if needed, u | se reverse for extra s | pace): | | | |
| -1250s. <u>1</u> | | < y₀ | | | |
| PLEASE NOTE: | | | | | |
| Plant variety protection can be afforded only to owners (no | • | 1 | | | |
| If the rights to the variety are owned by the original bre which affords similar protection to nationals of the U.S. | for the same genus and | species. | | | |
| If the rights to the variety are owned by the company w member country, or owned by nationals of a country wh | hich employed the origich affords similar prot | inal breeder(s), the company must be U.S. tection to nationals of the U.S. for the same | pased, owned by nationals of a UPOV genus and species. | | |
| 3. If the applicant is an owner who is not the original own | er, both the original ow | ner and the applicant must meet one of the | above criteria. | | |
| The original breeder/owner may be the individual or comp | any who directed final l | preeding. See Section 41(a)(2) of the Plant | Variety Protection Act for definition. | | |
| According to the Paperwork Reduction Act of 1995, no persons are | required to respond to a coll | ection of information unless it displays a valid OMB | control number. The valid OMB control number for | | |

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